

REMARKS

Applicants will address each of the Examiner's objections and rejections in the order in which they appear in the Final Rejection.

Drawings

The Examiner is requiring that new corrected drawings be submitted in accordance with the proposed correction filed on November 24, 2004 which has now been approved. Accordingly, Applicants are submitting such new corrected formal drawings herewith and request that this objection now be withdrawn.

Claim Rejections - 35 USC §103

Claims 1, 15, 18, 21, 24, 28-33 and 42-47

The Examiner also rejects Claims 1, 15, 18, 21, 24, 28-33 and 42-47 under 35 USC §103(a) as being unpatentable over Burr '340 in view of Burr '951. This rejection is respectfully traversed.

In order to advance the prosecution of this application, Applicants have amended independent Claims 1, 29 and 42 to recite that the impurity region(s) extends in a direction of the $\langle 100 \rangle$ axis on the $\{100\}$ plane of the single crystal semiconductor substrate. Hence, the impurity region is formed by introducing an impurity from the $\langle 100 \rangle$ axis, and the direction of the $\langle 100 \rangle$ axis within the $\{100\}$ plane of the single crystal semiconductor substrate agrees to the direction connecting the source region and the drain region (see e.g. Figs. 3 and 8 and the specification at page 4, lns. 11-13 and page 9, lns. 5-12 of the present application).

Applicants respectfully submit that neither of the cited references disclose or

suggest this feature. Accordingly, independent Claims 1, 29 and 42, and those claims dependent thereon, are patentable over the cited references, and it is respectfully requested that this rejection be withdrawn.

Claims 56-58

The Examiner further rejects Claims 56-58 under 35 USC §103 as being unpatentable over Burr '350 in view Burr '951 and further in view of Hook et al., Mikoshiba and/or Okumura et al. This rejection is respectfully traversed.

In order to advance the prosecution of this application, Applicants have amended independent Claim 56 in a manner similar to that discussed above for independent Claims 1, 29 and 42. Hence, as explained above, the claimed device is not disclosed or suggested by Burr '350 nor Burr '951.

Applicants also respectfully submit that this feature and the claimed invention would not have been obvious in view of the other cited references.

For example, Hook merely teaches an angled implementation and does not teach or suggest implanting an impurity element from the $\langle 100 \rangle$ axis with respect to the $\{100\}$ plane. Mikoshiba merely teaches arranging a transistor so that a channel direction is aligned with the $\langle 100 \rangle$ direction. Neither Hook nor Mikoshiba (nor the other cited references) discloses or suggests that the impurity region(s) extends in a direction of the $\langle 100 \rangle$ axis on the $\{100\}$ plane, as in the claims of the present application.

Accordingly, the claims are patentable over the cited references, and it is respectfully requested that this rejection be withdrawn.

Conclusion

It is respectfully submitted that the present application is now in a condition for allowance and should be allowed.

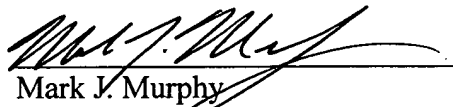
Please charge our deposit account 50/1039 for any further fee for this amendment.

Favorable reconsideration is earnestly solicited.

Respectfully submitted,

Dated:

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